

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: MTECH/MSC/MUP
BRANCH: CEE/CS/EEE/MECH/BT/ECE/IS/RS/GI/MUP

SEMESTER : I
SESSION : MO/19

SUBJECT: AR604 DISASTER MANAGEMENT & PLANNING

TIME: 3:00 HOURS

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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- Q.1(a) Give examples from any three cases for the equation of: Disaster = Vulnerability + Hazard. [6]
Q.1(b) Explain the interplay between the phenomenon of disaster and the process of development. [4]
- Q.2(a) Discuss typical adverse effect, possible risk reduction measure and specific preparedness measure for any two hazards: [6]
i) Desertification.
ii) Environmental pollution
iii) Deforestation
- Q.2(b) Differentiate between disaster mitigation and disaster preparedness. [4]
- Q.3(a) Write short notes on: [6]
i) Building codes,
ii) Micro zoning,
iii) Adaptive resilience
- Q.3(b) Define risk mapping and discuss role of map overlay technique in hazard and vulnerability assessment with the help of an example. [4]
- Q.4(a) What is role of capacity building and disaster education in achieving disaster risk reduction? [4]
Q.4(b) Discuss role of NGO's during the immediate aftermath of disaster, pre-disaster phase and post-disaster phase of Disaster management. [6]
- Q.5(a) Briefly discuss the history of global efforts in reduction of disaster risk. [5]
Q.5(b) What is the role of union government, state government and district authorities in disaster management as per the provisions of National Disaster Management Act, 2005. [5]

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